09.3-24 The Crystal Structure of Decadecanediylbis[(CpF)(Ph)Co]2

The crystal structure of the title compound was determined by X-ray diffraction. The compound crystallizes in the monoclinic space group P21/c with a=12.395(2) Å, b=15.764(2) Å, c=9.230(2) Å, and β=92.04°. The molecule consists of two CpF ligands, each coordinated to a Co atom through a single bond. The Co atoms are bridged by a C12H24O unit, resulting in a 1D polymer structure. 

09.3-26 Neutron Diffraction Studies of Cyclic Allyl Iridium Complexes

The title complexes, [(C5H4)Ir(CO)2Cl]2 and [(C5H4)Ir(CO)2Ph], were studied by neutron diffraction at room temperature. The results show that both complexes adopt a square-planar geometry with a C2 axis of symmetry. The Ir−C bond lengths are approximately 2.0 Å, and the Ir−Cl and Ir−Ph bond lengths are 2.2 Å and 2.3 Å, respectively. The Neutron scattering factors were used to refine the crystal structures, and the results agree well with the X-ray diffraction data.